IN THE CLAIMS

1. (Amended) A structure comprising:

a polycrystalline material comprising crystallites of polymers with intersticial regions therebetween;

polymers <u>are</u> selected from the group consisting of a precursor to an electrically conductive polymer and an electrically conductive polymer;

said intersticial regions between said crystallites comprising amorphous material comprising an additive;

said additive provides mobility to said polymer to allow said polymer to associate with one another to achieve said crystallites[.];

said polycrystalline material is characterized by a degree of crystalinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.

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- 3. (Amended) A structure according to claim 1, wherein said additive is [selected from the group consisting of plasticizers and diluents] a plasticizer.
- 7. (Amended) A structure comprising:

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a polycrystalline material comprising crystallites of polymers with intersticial regions therebetween;

said p lymer is selected from the group consisting of a precursors to an electrically conductive polymer and an electrically conductive polymer;

said intersticial regions comprise an amorphous material selected from the group consisting of said polymers;

said amorphous material includes an additive[.]:

said polycrystalline material is characterized by a degree of crystalinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.

10. (Amended) A structure according to claim 7, wherein said [plasticizer] additive is selected from the group consisting of:

Adipic acid derivatives

Azelaic acid derivatives

Benzoic acid derivatives

Citric acid derivatives

Dimer acid derivatives

Epoxy derivatives

Fumaric acid derivatives

Glycerol derivatives

Isobutyrate derivatives

Isophthalic acid derivatives

Lauric acid derivatives

Linoleic acid derivative

Maleic acid derivative

Mellitates

Myristic acid derivatives

Sebacic acid derivatives

Stearic acid derivatives

Succinic acid derivatives

Sulfonic acid derivative

Terpentines

Terpentine derivatives

Siloxanes

Polysiloxanes

Ethylene glycols

Polyethylene glycols

Polyesters

Sucrose derivatives

Tartaric acid derivative

Terephthalic acid derivative

Trimellitic acid derivatives



Oleic acid derivatives

Plamitic acid derivatives

Paraffin derivatives

Phosphoric acid derivatives

Phthalic acid derivatives

Ricinoleic acid derivatives

Glycol d rivatives

Glycolates

Hydrocarbons

Phosphonic acid derivatives

Polysilanes

18. (Amended) A structure comprising:

a polycrystalline material comprising crystallites of polyaniline with intersticial regions therebetween;

said polyaniline is selected from the group consisting of a precursors to an electrically conductive polyaniline and an electrically conductive polyaniline;

said intersticial regions comprise an amorphous material selected from the group consisting of polyaniline;

said amorphous material includes an additive in an amount from about 0.001% to about 90% by weight;

said additive is selected from the group consisting of poly-co-dimethylaminopropyl siloxane, poly (ethylene glycol) tetrahydro furfuryo ether, glycerol triacctate and epoxidized soy bean oil[.];

said polycrystalline material is characterized by a degree of crystalinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.